

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  <b>C-291</b>	<b>FOR FURTHER ACTION</b>		see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No.  <b>PCT/US 03/36222</b>	International filing date (day/month/year)  <b>12/11/2003</b>	(Earliest) Priority Date (day/month/year)  <b>14/11/2002</b>	
Applicant  <b>SUN CHEMICAL CORPORATION</b>			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 03/36222

## Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Thin, flexible plastic films, of the type used for the packaging of foodstuffs, may be printed using a laser marking technique by printing a layer or layers comprising a laser sensitive material and an ink so that heating of the laser sensitive material by absorption of laser radiation burns the ink selectively, so causing markings to appear.

A further process for marking a flexible plastic material using a laser is disclosed, whereby to a surface of a substrate comprising said flexible plastic material a laser sensitive material which is or is associated with a material that generates gas on heating is applied, this is coated with a gas impermeable layer, then exposed to laser radiation such that raised markings appear on the exposed portions.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/36222

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B41M5/24 B41M5/26 B41M5/40 B41M3/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B41M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 066 437 A (KOESSLINGER ROBERT) 23 May 2000 (2000-05-23) cited in the application column 3, line 46 - column 5, line 45; figure 1	1-4, 6-9
X	US 6 259 465 B1 (HEETDERKS JAMES P ET AL) 10 July 2001 (2001-07-10) column 2, line 40 - column 3, line 6 column 4, line 5 - line 61 column 6, line 5 - line 41	1-4, 8, 9
X	EP 0 526 396 A (FERCHIM ENG SA) 3 February 1993 (1993-02-03) page 2, line 31 - page 3, line 10 page 3, line 36 - page 4, line 12 page 5, line 52 - page 6, line 21	5

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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

18 May 2004

Date of mailing of the international search report

01/06/2004

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/36222

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 443 639 A (EASTMAN KODAK CO) 28 August 1991 (1991-08-28) claim 1; examples 1,2 -----	1,3,4, 6-9
X	EP 0 419 377 A (BLANCOMME ; MERLIN GERIN (FR)) 27 March 1991 (1991-03-27) column 2, line 16 - column 3, line 27 column 5, line 17 - line 21; claims 7,9 -----	1,3,4, 6-9
A	DE 196 46 331 A (FRAUNHOFER GES FORSCHUNG) 14 May 1998 (1998-05-14) the whole document -----	5

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/36222

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